Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office			4/14/4	IMMR-0 (034701	-433)	Serial No. 10/615,986		
Into	rmation Disclosure	plicant	Applicant: Louis B. Rosenberg et al.					
C1 1.7 2001 &	(Use several she		Filed: 0	7/10/03	Group: 2629			
e made per les		U.	.S. Patent Documer	ıts				
init.	Document No.	Date	Name		Class	Subclass	Filing Date	
/AA/	4,023,290	05/17/1977	Josephson					
	4,101,884	07/18/1978	Benton, Jr.					
	4,108,146	08/22/1978	Hall, Sr.					
	4,242,823	01/06/1981	Bruno				-	
	4,414,537	11/08/1983	Grimes		_	-	+	
	4,414,984	11/15/1983	Zarudiansky		~			
	4,550,221	10/29/1985	Mabusth					
	4,557,275	12/10/1985	Dempsey, Jr.					
	4,584,625	04/22/1986	Kellogg					
	4,692,756	09/08/1987	Clark					
	4,715,235	12/29/1987	Fukui et al.					
	4,757,453	07/12/1988	Nasiff			>		
	4,791,416	12/13/1988	Adler					
	4,821,030	04/11/1989	Batson et al.				1	
	4,871,992	10/03/1989	Peterson					
	5,143,505	09/01/1992	Burdea et al.					
	5,159,159	10/27/1992	Asher					
	5,223,658	06/29/1993	Suzuki				-	
+	5,237,327	08/17/1993	Saitoh et al.				_	
	5,262,777	11/16/1993	Low et al.					
	5,316,017	05/31/1994	Edwards et al.					
<del>-  </del>	5,521,336	05/28/1996	Buchanan et al.					
	5,562,707	10/08/1996	Prochazka et al.				1	
1	5,580,251	12/03/1996	Gilkes et al.				+	
1	5,729,249	03/17/1998	Yasutake				1	
1	5,767,457	06/16/1998	Gerpheide et al.					
	5,828,197	10/27/1998	Martin et al.					
<del>                                     </del>	5,828,364	10/27/1998	Siddiqui					
1 1	5,942,733	08/24/1999	Allen et al.					
	5,943,044	08/24/1999	Martinelli et al.				1	
$\Psi^+$	5,982,304	11/09/1999	Selker et al.				‡	
Examiner /Abbas Abdulselam/ (11/29/2007)					Date Considered 11/29/2007			
	tial if citation consid	•	ot citation is in conf	ormance v	vith MPEP 609			

Form PTO 1449					cket No.	1	Serial No.					
(Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office					099C -433)	10/015,98	10/615,986					
					Applicant: Louis B. Rosenberg et al.							
Information Disclosure Statement by Applicant  (Use several sheets if necessary)					Filed: 07/10/03 Group: 2629							
							510up. 2027					
		U.	S. Patent Documen	its								
Init.	Document No.	Date	Name		Class	Subclass	ibclass Filing Date					
/AA/	5,988,902	11/23/1999	Holehan									
/AA/	6,680,729	01/20/2004	Shahoian et al.				ļ	<u></u>				
/AA/	2003/0122779	07/03/2003	Martin et al.			<del></del>						
			Foreign Documents	S		· · · · · · · · · · · · · · · · · · ·						
								slation				
Init.	Document No.	Date	Name		Class	Subclass	Yes	No				
/AA/	JP6-18341	01/25/1994	Fuji Electric Company, Limited				х					
/AA/	JP11-299305	11/02/1999	Kubota Corpora	ition			X					
	Other Doo	uments (Includ	ing Author, Title, I	Date, Perti	inent Pages, e	tc.)						
/AA	Bolanowski, S.J. et al., "Four Channels Mediate the Mechanical Aspects of Touch," J. Acoust. Soc. Am. 84 Volume 84 (5), November 1988, pp. 1680-1694.											
/AA	Durlach, Nathani Academy Press.	Durlach, Nathaniel I. et al., "Virtual Reality: Scientific and Technological Challenges," National Academy Press, Washington, D. C. 1995, pp. 160-205.										
/AA/	Frisken-Gibson, Sarah F. et al, "A 64-Solenoid, Four-Level Fingertip Search Display for the Blind," IEEE Transactions on Biomedical Engineering, Vol. BME-34, No. 12, December 1987, pp. 963-965.											
/AA/	Goldstein, Moise H. et al., "Tactile Aids for the Profoundly Deaf Child," 77 J. Acoust. Soc. Am 77 (1), January 1985, pp. 258-265.											
/AA	International Pre	International Preliminary Report on Patentability, PCT/US2005/036861, dated 04/11/07.										
/AA	Jackson, K. M., "Linearity of Radio-Frequency Transducers," Medical and Biological Engineering and Computer, July 1977, pp. 446-449.											
/AA/	Kaczmarek, Kurt A. et al, "Electrotactile and Vibrotactile Displays for Sensory Substitution Systems", IEEE Transactions on Biomedical Engineering, Vol. 38, No. 1, January 1991, pp. 1-16.											
/AAV	Peine, W.J., "Tactile Shape Displays for Small Scale Shape Feedback," http://www.hrl.harvard.edu/~peine/display.html, 1998, pp. 1-2.											
		<del></del>										
-						<del>-</del>						
Examiner /	l 'Abbas Abdulselam/	(11/29/2007)		<del></del>	Date Consid	lered 11/29	2007					
Examiner: In	itial if citation consider	red, whether or n	ot citation is in conf	ormance v	vith MPEP 609	9; Draw line th	rough ci	tation				
if not in confe	ormance and not consid	ered. Include a c	copy of this form wit	n the next	communication	n to applicant						